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(56) Documents cited

GB 2216800 A

GB 2139899 A

SU 0895436 A

US 4331163 A

US 3971387 A

US 3709228 A

US 3620219 A

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(54) **Massage device for eyes**

(57) A massage mask for eyes, which has the effects of low frequency therapy and of stimulating the acupunctural points relating to the eyes. The mask (1) is provided with a plurality of conductive projections (21-26) conformable with the relative facial configurations at the related positions about the eyes and a low frequency wave generator (3) which is provided with means (31, 32) for adjusting its current intensity and/or frequency and means for timing interruption (33).

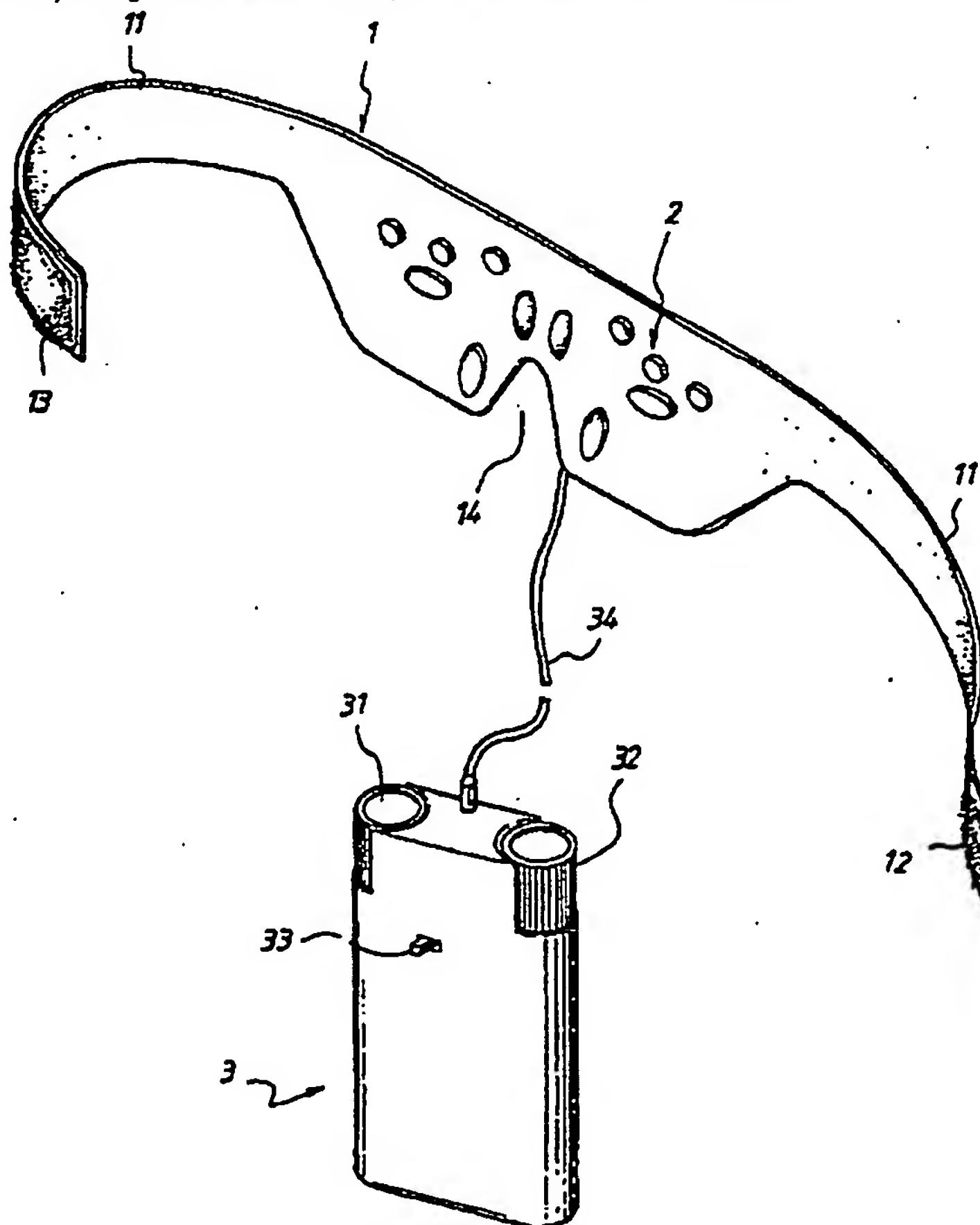


FIG. 1

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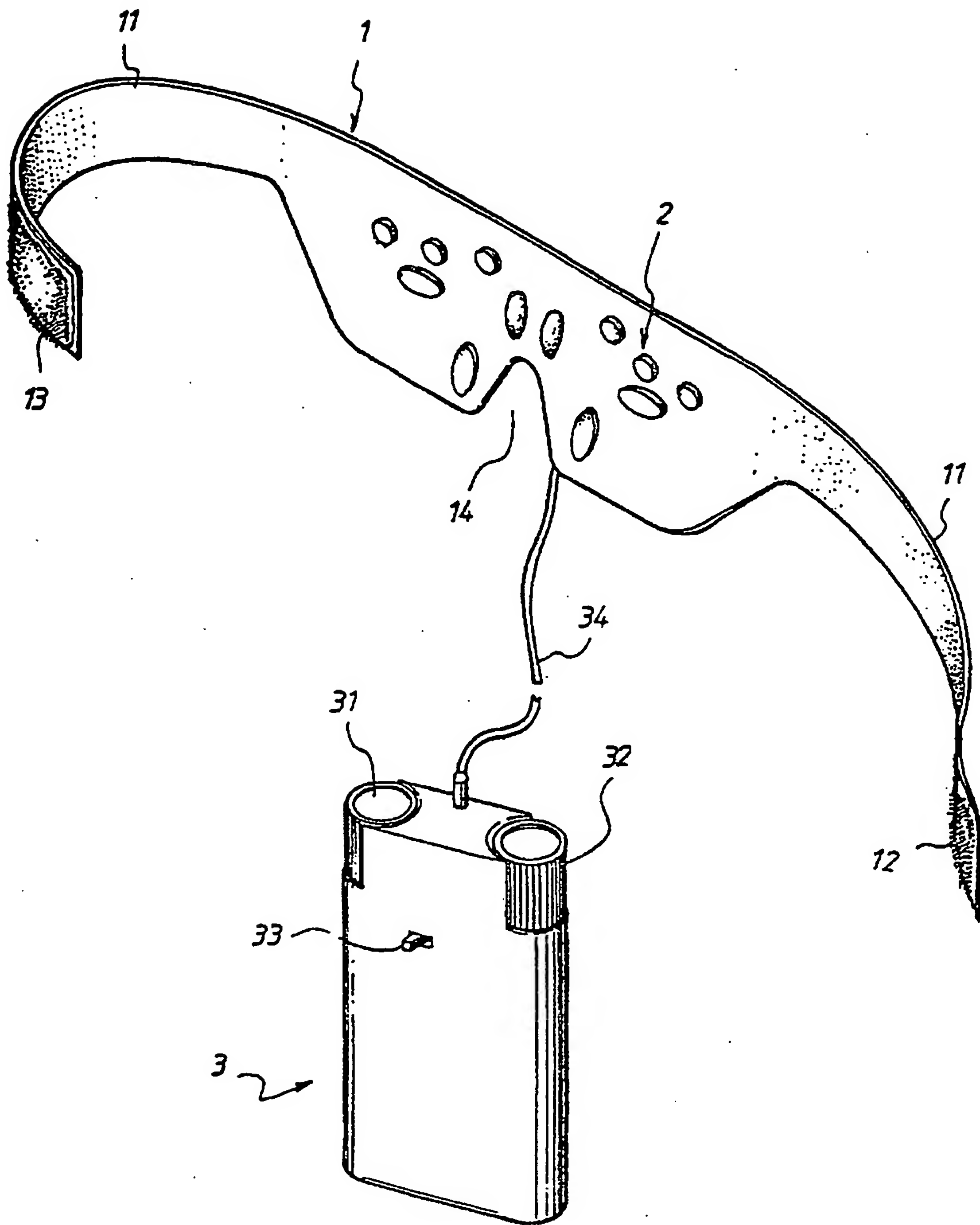


FIG. 1

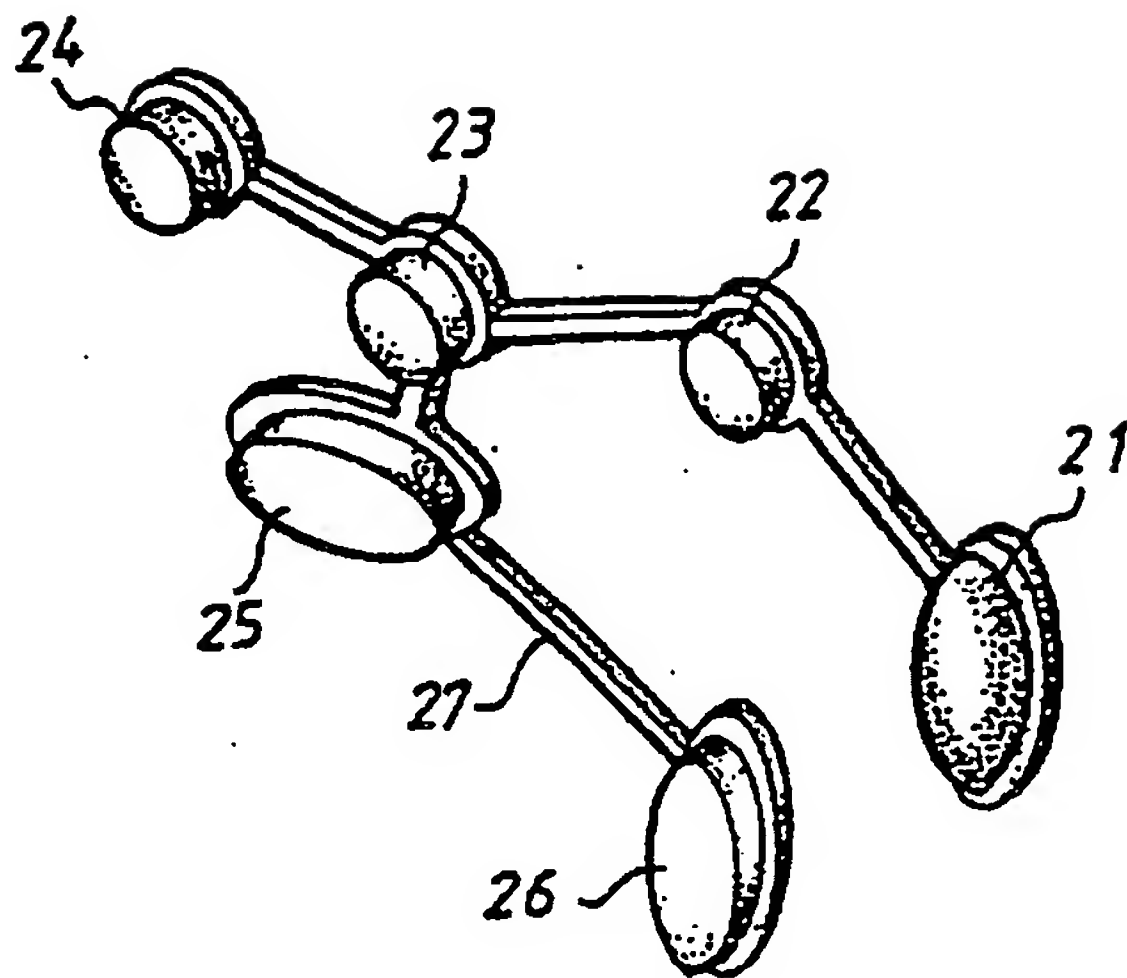


FIG. 2

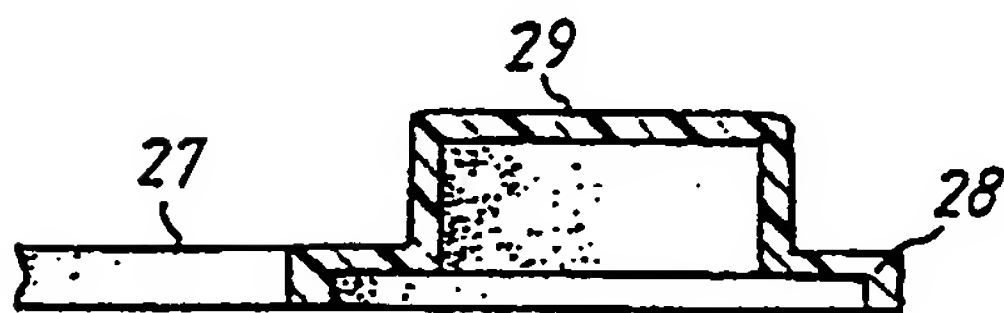


FIG. 3A

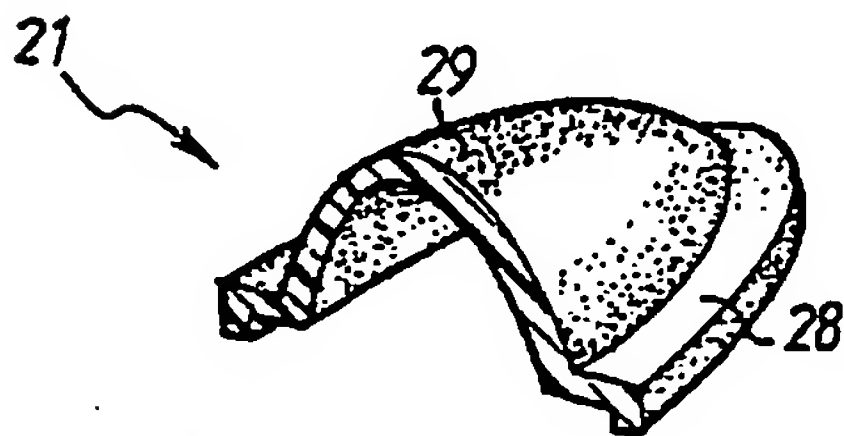


FIG. 3B

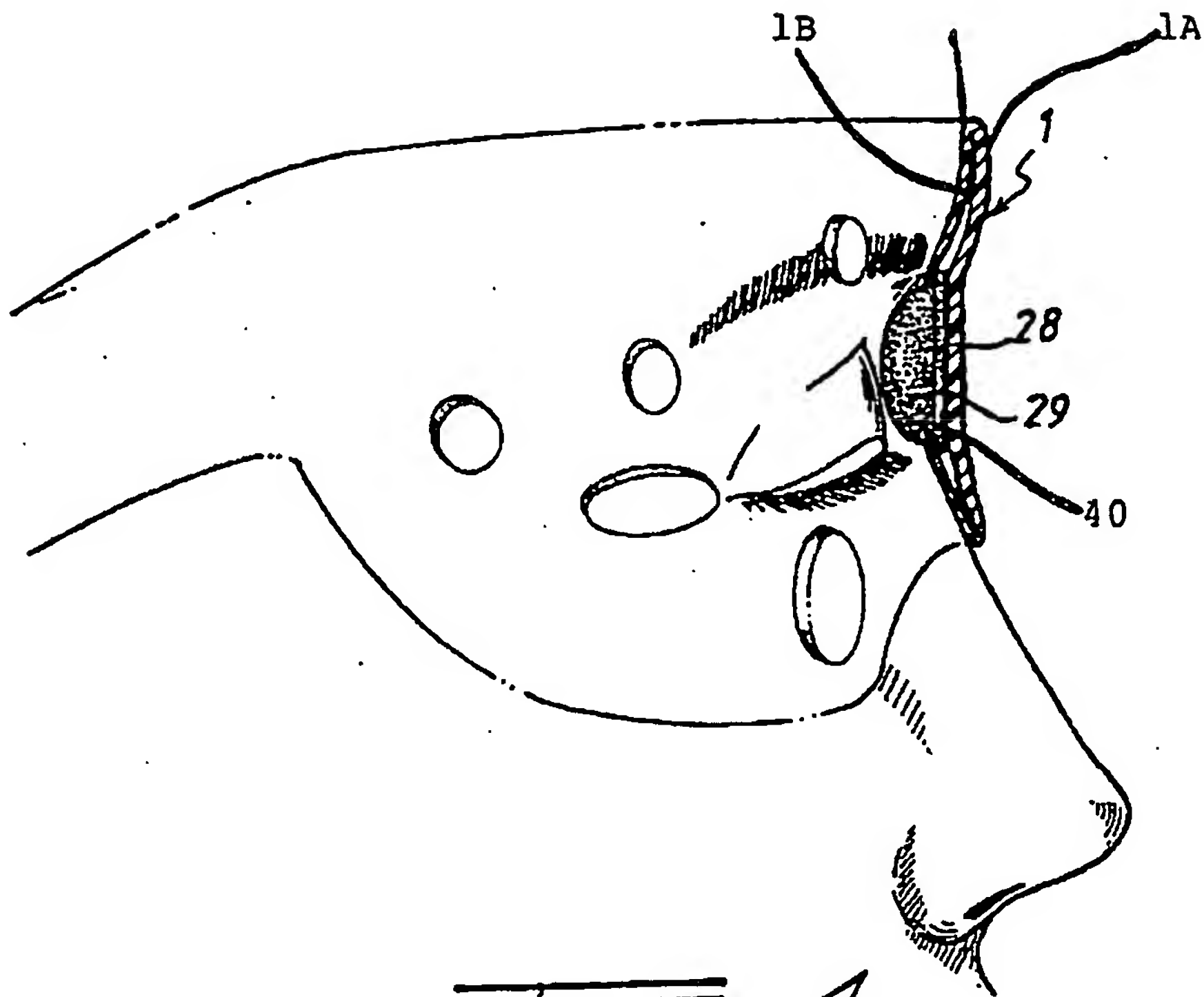


FIG. 4

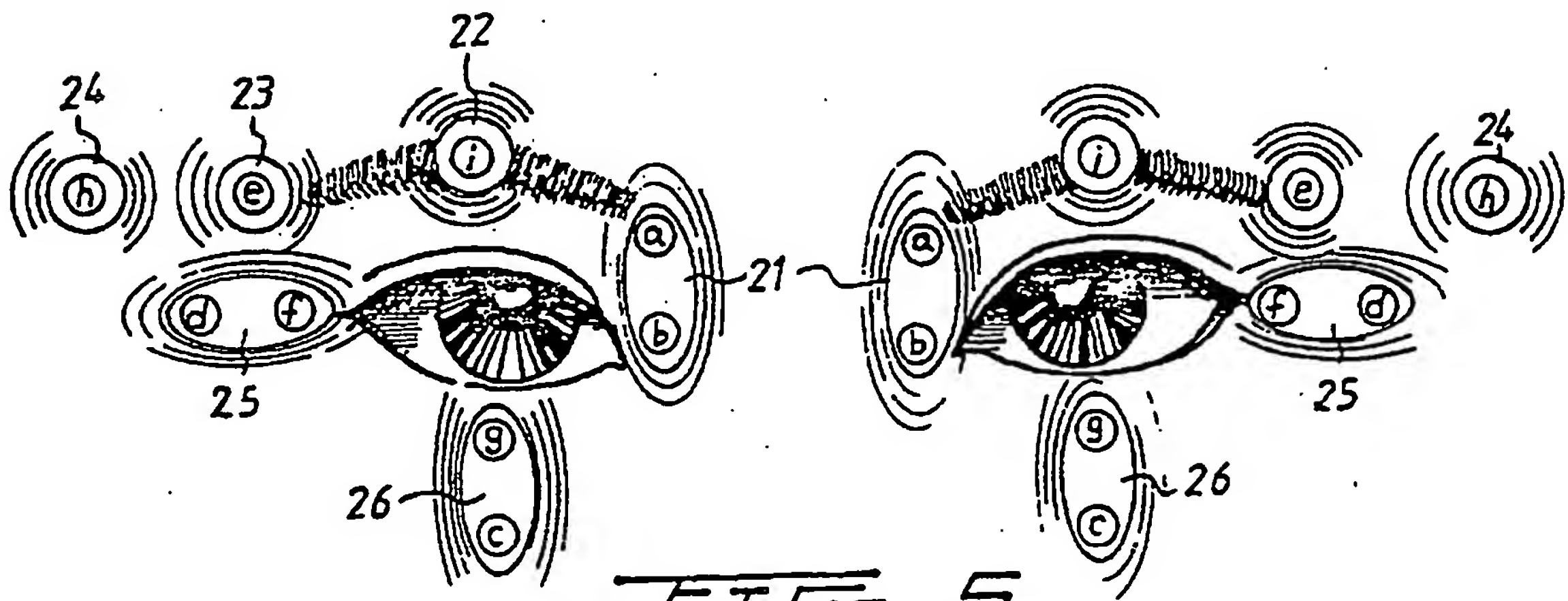


FIG. 5

MESSAGE DEVICE FOR EYES

Till now, no any effective medicine or therapy has been found in the domain of western medicine to solve the problem of near sight or loss of sight. However, it has been found that massaging the acupunctural points relating to the eyes in accordance with the Chinese acupuncture is relatively effective in solving the problem.

Moreover, the physical therapy by the use of low frequency wave is widely adopted in the domain of medicine and there are, therefore, various low frequency massage devices available. Nevertheless, the effectiveness of these devices is not remarkable because most of the users are not aware of the accurate positions of the concerned acupunctural points on the human body and the related effects which can be achieved by massaging these points.

According to the present invention, a massage device comprises an eye mask for fitting over a user's eyes, the mask carrying conductive projections positioned and aligned with acupunctural points relating to the eyes, the projections being electrically connected together; and a low frequency current generator electrically connected to the projections so that in use the passage of low frequency current through the projections stimulates and massages the corresponding acupunctural points.

Accordingly, the invention provides a massage device for eyes, in which a plurality of conductive projections are fixedly provided so that low frequency currents through these projections can be utilized for massaging and stimulating the acupunctural points relating to the eyes in order to eliminate fatigue thereof and maintain their health.

The invention also provides a health maintaining device for the eyes which is capable of accurately stimulating the concerned acupunctural points without the need of using fingers so that the drawbacks of massaging the acupunctural points by fingers, such as contamination

of the eyes by the unclean fingers and the incorrect massage positions, can be eliminated.

A preferred embodiment of the invention will now be described by way of example and with reference to the accompanying drawings, in which:

Figure 1 is a view of the massage device in accordance with the invention;

Figure 2 is a view showing the arrangement of the massage projections in accordance with the invention;

Figures 3A and 3B are sectional views illustrating the construction of one of the projections;

Figure 4 illustrates the use of the massage device in accordance with the invention; and

Figure 5 illustrates the relative positions of the acupunctural points corresponding to the projections of the device in accordance with the invention.

Referring to Figure 1, the massage device in accordance with the invention primarily comprises an eye mask 1, on the inner side of which are symmetrically provided two sets of conductive projections 2. On each side of the mask is an extended band 11. At the free ends of bands 11 are provided Velcro bands 12 and 13 respectively. The mask is formed at the central portion thereof with a notch 14 conformable with the nose of the user. The device also comprises a low frequency generator 3 including a current intensity adjusting knob 31, a frequency adjusting knob 32, and a timing interruption switch 33. The projections are connected with the generator 3 by a conductive wire 34.

As shown in Figure 2, a set of projections consists of six massage projections connected together by conductive strips 27. These projections are different in position, shape, and/or function. The basic construction of each of the projections is as shown in Figure 3A. Each projection may be integrally formed from conductive rubber to form a hollow projection portion 29 and a base portion 28. In each set 2 of projections, there are an ellipsoidal

projection 21 (the construction of which is shown in Figure 3B), three flat circular projections 22, 23, 24, and two flat elliptical projections 25, 26.

5 As can be seen in Figure 4, the base portion 28 of each projection is enclosed between layers 1A, 1B of the mask but the projection portion 29 is exposed through a hole 40 in the layer 1B.

Also referring to Figure 1, to use the mask, the user may first wet (e.g. by wetted cotton) the face portion
10 about the eyes to increase conductivity and then wear the mask 1. The mask should be properly positioned so that the two flat ellipsoidal projections rest against the skin on the two sides of the bridge of nose as shown in Figure 4. The two bands 11 are fastened together by Velcro bands 12
15 and 13. Now the projections are positioned at the corresponding acupunctural points and the user may switch on the generator 3. The user may adjust the frequency provided by the generator 3 through knob 32 according to his own sense of comfort.

20 Referring to Figure 5, the projections are arranged in accordance with the principle of acupuncture.

When the user wears the mask 1, each ellipsoidal projection 21 is positioned on the acupunctural points of Tzanchu (a) (which, when stimulated, has curing effect on tears shedding, sclerokeratitis, eye obscure, and white spots on cornea) and Chingming (b) (which, when stimulated, has curing effect on acute and chronic conjunctivitis, myopia, tears shedding against the wind, hyperopia, photophobia, optic neuritis, optic atrophy, and cataract). The flat circular projection 22 is positioned on the acupunctural point of Yangbai (i) (which, when stimulated, has curing effect on headache, eye disease, facial neuroparalysis). The flat circular projection 23 is positioned on the acupunctural point of Sichukong (e) (which, when stimulated, has curing effect on migraine, eye disease, facial carbuncle). The flat circular projection 24 is positioned on the acupunctural point of Hanyen (h) (which, when stimulated, has curing effect on giddy and facial carbuncle). The flat ellipticle projection 25 is positioned on the acupunctural points of Tiyang (d) (which, when stimulated, has curing effect on headache and eye disease) and Tungtsuchiaio (f) (which, when stimulated, has curing effect on eye obscure, white spots on cornea, conjunctivitis, and optic atrophy). The flat elliptical projection 26 is positioned on the acupunctural points of Chengchi (g) (which, when stimulated, has curing effect on acute and chronic conjunctivitis, eye muscle paralysis, tears shedding, myopia, hyperopia, nyctalopia, and optic atrophy) and Sibai (c) (which, when stimulated, has curing effect on facial carbuncle, trifacial neuralgia, and eye disease).

CLAIMS

1. A massage device comprising an eye mask for fitting over a user's eyes, the mask carrying conductive projections positioned and aligned with acupunctural points relating to the eyes, the projections being electrically connected together; and a low frequency current generator electrically connected to the projections so that in use the passage of low frequency current through the projections stimulates and massages the corresponding acupunctural points.
2. A massage device according to claim 1, wherein the mask comprises a double-layer construction, one layer having a plurality of through holes, wherein each projection has a base portion secured between the layers and a projecting portion extending through a respective through hole.
3. A device according to claim 2, wherein each projection is integrally formed from rubber.
4. A device according to any of the preceding claims, wherein the mask has a pair of side bands whose ends can be detachably fixed together to secure the mask on the user's head.
5. A mask according to any of the preceding claims, comprising two symmetric sets of conductive projections arranged according to the acupunctural points relating to the eyes and connected together by conductive strips, each of the sets comprising any ellipsoidal projection, two flat elliptical projections, and three flat circular projections distributed around the mask portion to be covered on the corresponding eye.
6. A massage device according to claim 5, wherein the distribution of the projections on the mask is arranged according to the positions of the corresponding acupunctural points, such that when the user wears the mask, the ellipsoidal projection in each of the two sets is pressed against the acupunctural points of Tzanchu

- Chingming, a flat circular projection is pressed against the acupunctural point of Yangbai, a flat circular projection is pressed against the acupunctural point of Sichukong, a flat circular projection is pressed against the acupunctural point of Hanyen, a flat ellipticle projection is pressed against the acupunctural points of Tiyang Tungtsuchiaio, and another flat elliptical projection is pressed against the acupunctural points of Chengchi and Sibai.
- 10 7. A message device according to any of the preceding claims, wherein the low frequency generator has a timing interruption switch so that the generator can be switched off after a predetermined time.
- 15 8. A message device substantially as herein before described with reference to the accompanying drawings.